



Key Themes

- Electric rates for most CPUC jurisdictional residential customers are increasing more quickly than inflation.
- The preponderance of that increase is impacting low usage residential customers.





Factors Influencing Rate Increases

- Revenue requirements are rising. These are the capital costs and expenses authorized to be collected through rates.
- Residential sales are falling.
- Ongoing tier closure magnifies these effects, resulting in disproportionate increases to the Tier 1 rate.





Disproportionate Rate Impacts

 The rate impacts of these trends are magnified for more granular customer groupings.

System Average Rates



Residential Average Rates



Baseline Rates



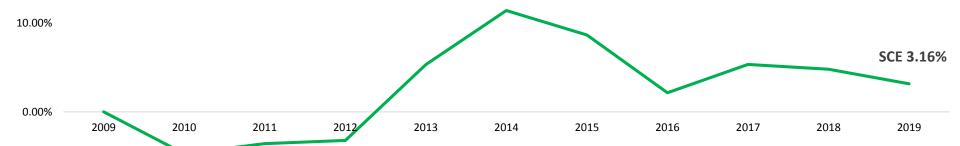
50.00%

SCE System Revenue Requirement % Change Since 2009 2009-2019

40.00%

30.00%

20.00%



-10.00%

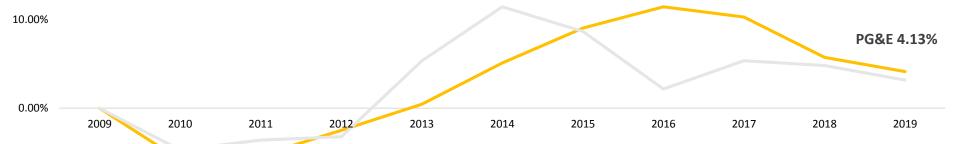
50.00%

PG&E System Revenue Requirement % Change Since 2009 2009-2019

40.00%

30.00%

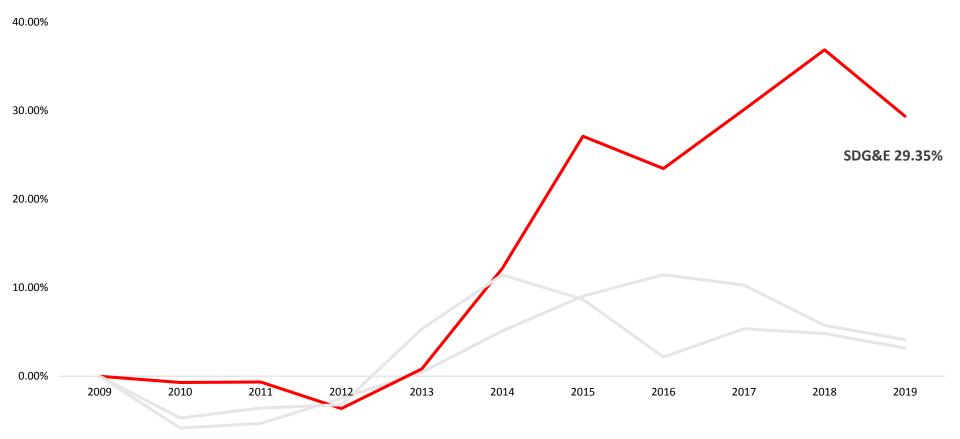
20.00%



-10.00%

50.00%

SDG&E System Revenue Requirement % Change Since 2009 2009-2019

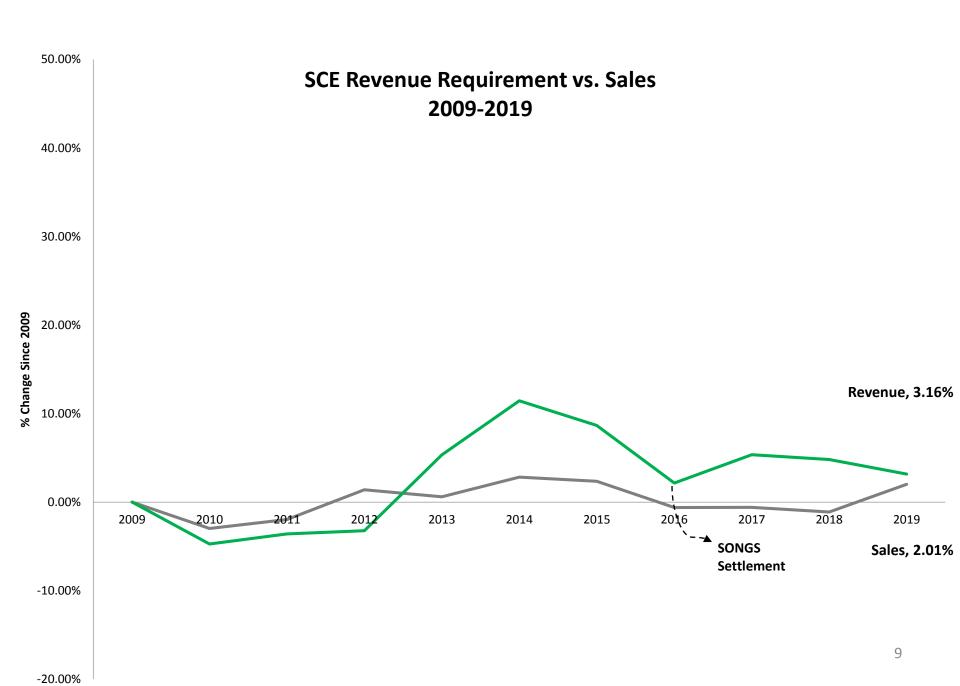


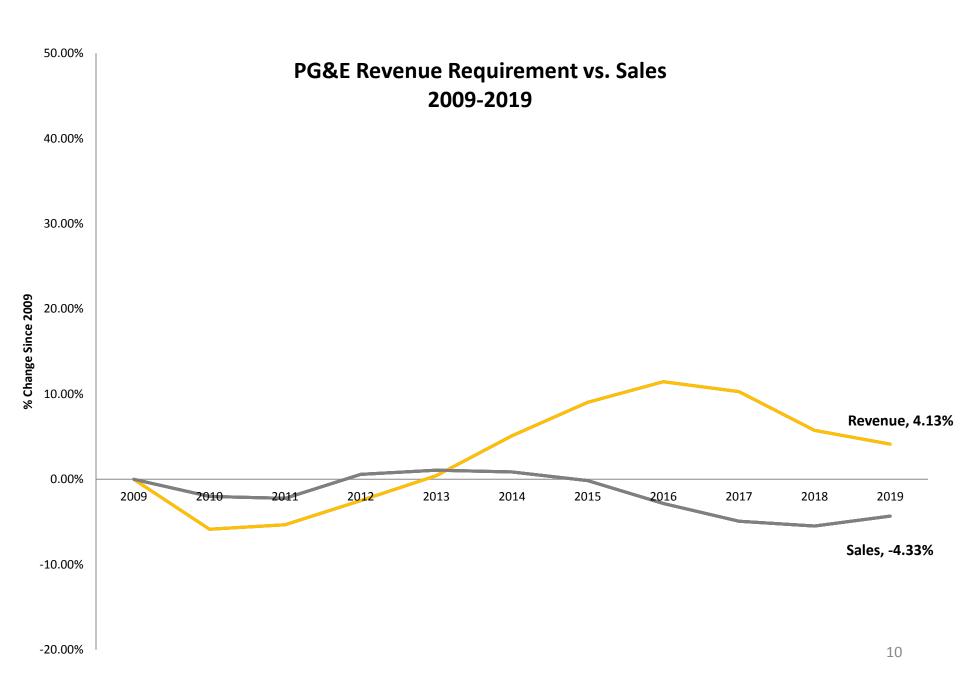
-10.00%

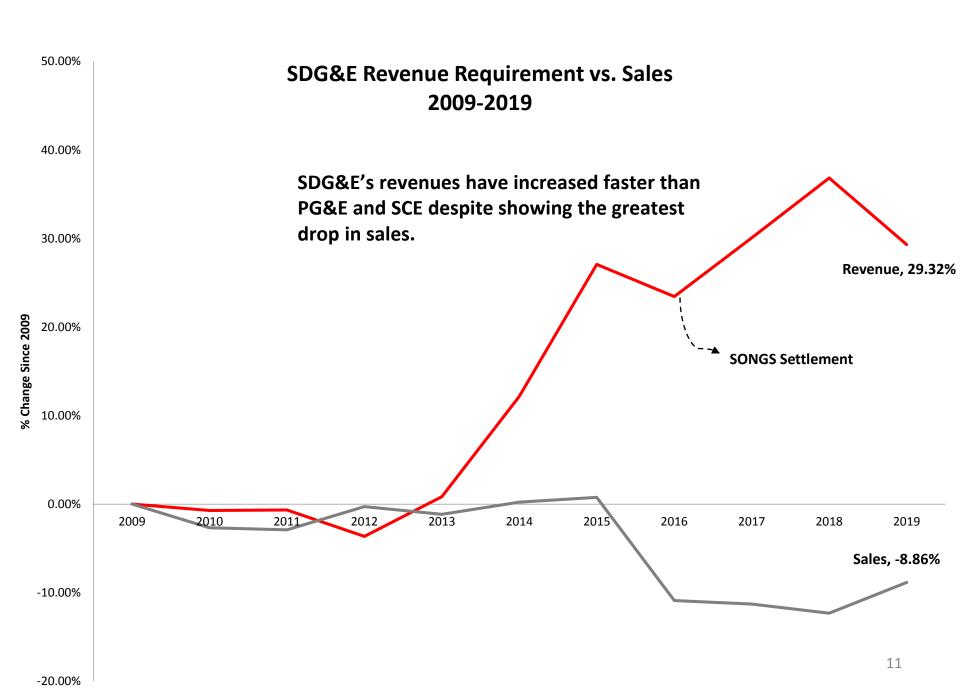


Stagnant & Decreasing Sales

- Prior to 2009, sales increases generally acted to offset increasing revenue requirements, resulting in less severe rate impacts despite growing revenue requirements.
- However due to energy efficiency and distributed generation, sales have been stagnant or decreasing statewide for the past several years. Sales decreases are expected to continue unless state Electrification policy takes root and reverts the trend in a sustainable manner.
- With lower sales, the same revenue requirement is collected over fewer kilowatt hours, resulting in higher per kWh rates.









Impact on System Average Rates

 In light of declining sales, even small increases in revenue requirements can have a substantial impact on customer rates and bills.

 System average rates are increasing more quickly than revenue requirements.



System Average Rates Increasing Faster Than Inflation for PG&E and SDG&E 2009-2019

100%

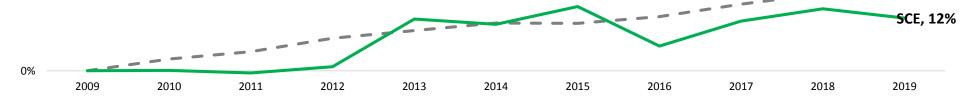
80%

SCE appears to track inflation for now.

60%

40

20%

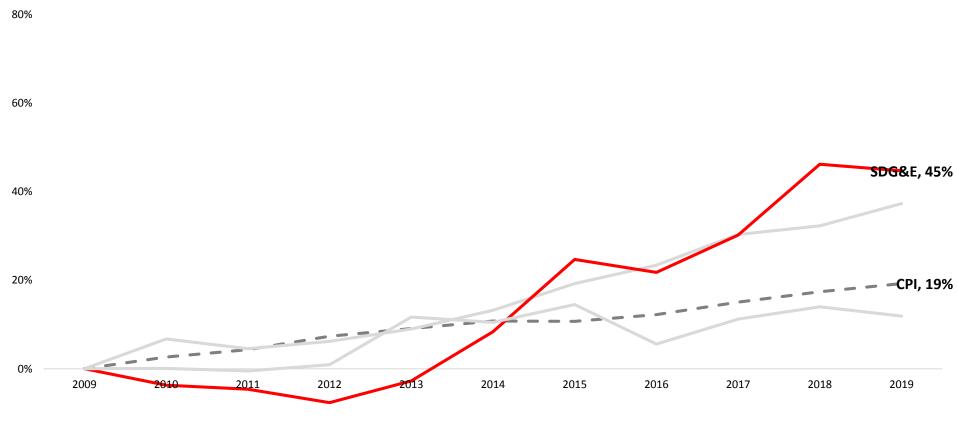


-CPI, 19%

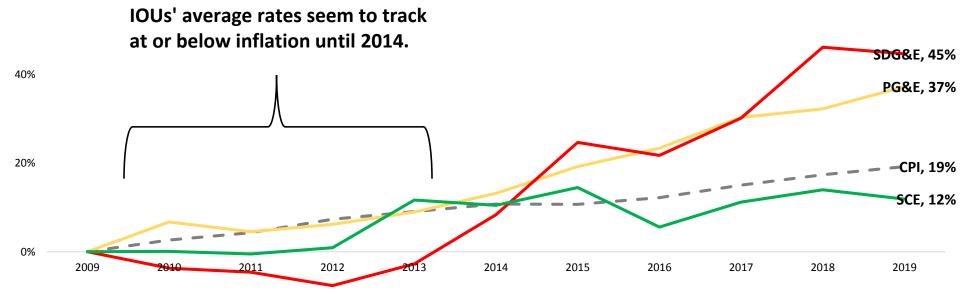
60% 40% PG&E, 37% 20% -CPI, 19% 0% 2009 2010 2011 2012 2013 2016 2017 2018 2019 2014 2015

120%

100%



120%



120%

100%

80%

80% But with the sales decline, system bundled average rates have risen more quickly than revenue requirements 60% **SDG**&E, 45% 40% PG&E, 37% 20% -CPI, 19% SCE, 12% 0% 2014 2011 2012 2009 2015 2016 2017 2018 2019

120%



Impact on Residential Rates

- Not all customer classes are symmetrically impacted by these changes.
- Residential rates are generally higher than system average rates, and are rising more quickly than inflation.
- CPUC jurisdictional residential rates are growing faster than statewide residential rates.



Not All Residential Rates Are Tracking Inflation 2009-2019

100%

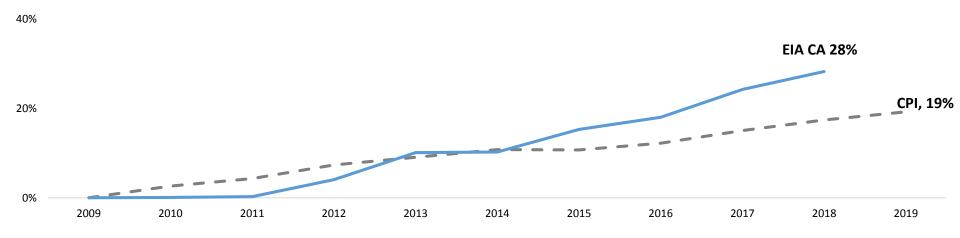
80%

60%

Since 2009, the Energy Information Agency (EIA) CA residential average rate metric has increased faster than inflation.

EIA residential average rate divides the total residential sales statewide in kWh by total residential class revenues.

Use of a statewide metric obscures rate impacts at the IOU level.

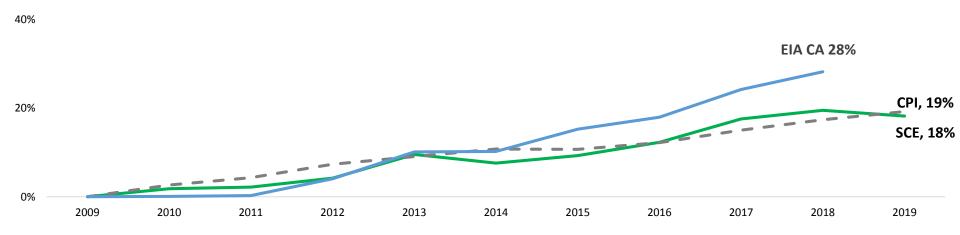


Not All Residential Rates Are Tracking Inflation 2009-2019

100%

80%

Since 2009, SCE's residential average rate appears to keep pace with inflation.

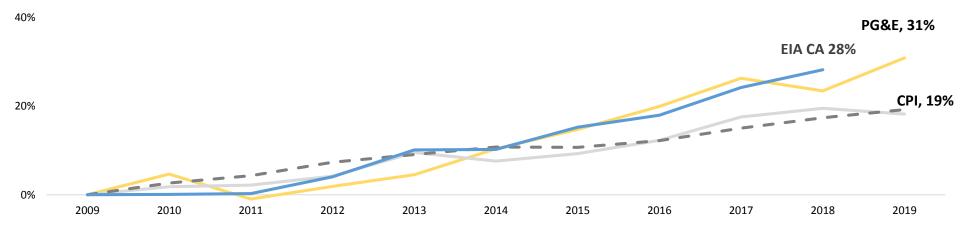


Not All Residential Rates Are Tracking Inflation 2009-2019

100%

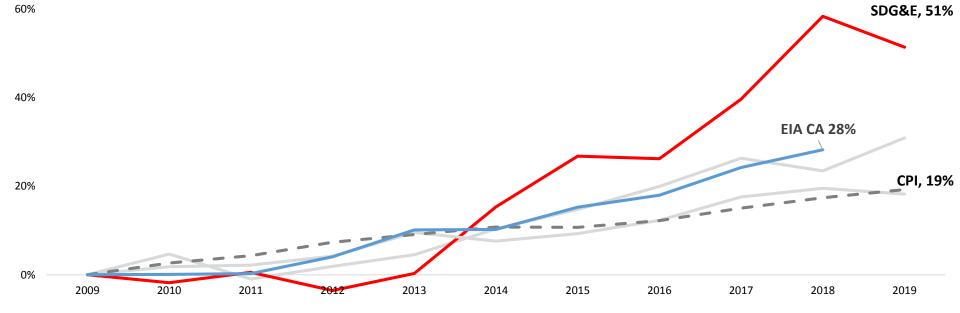
80%

PG&E's residential average rate has increased more than SCE's.



Not All Residential Rates Are Tracking Inflation 2009-2019

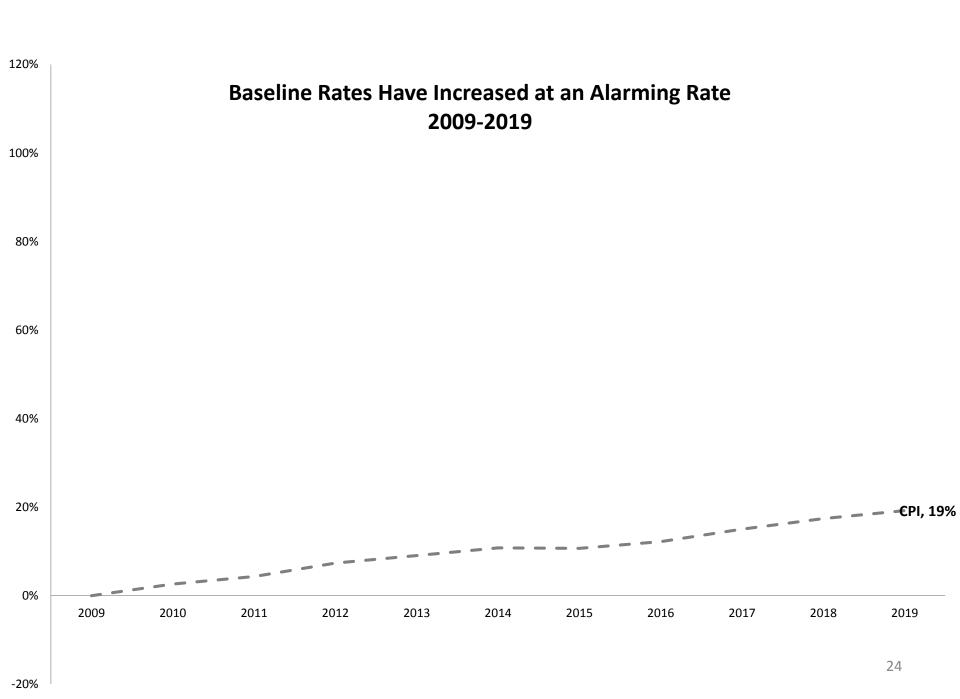
100%

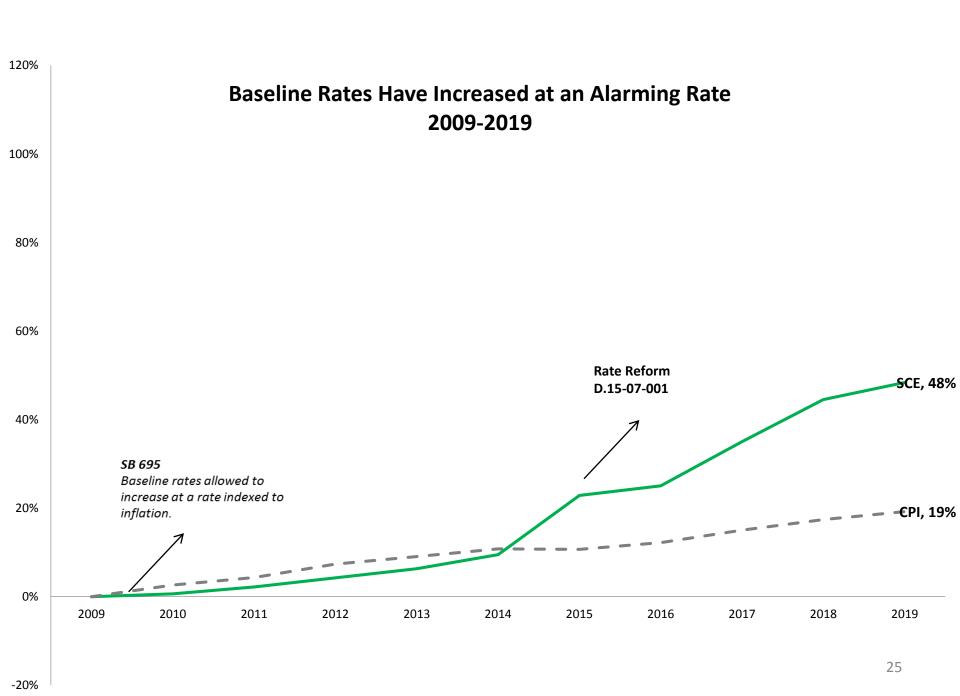


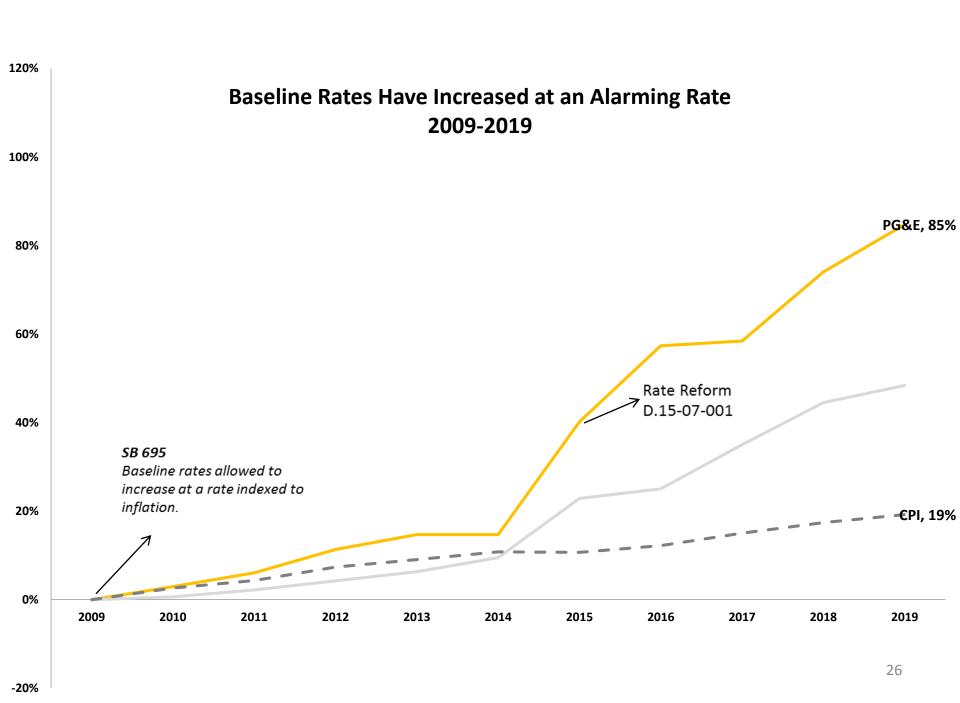


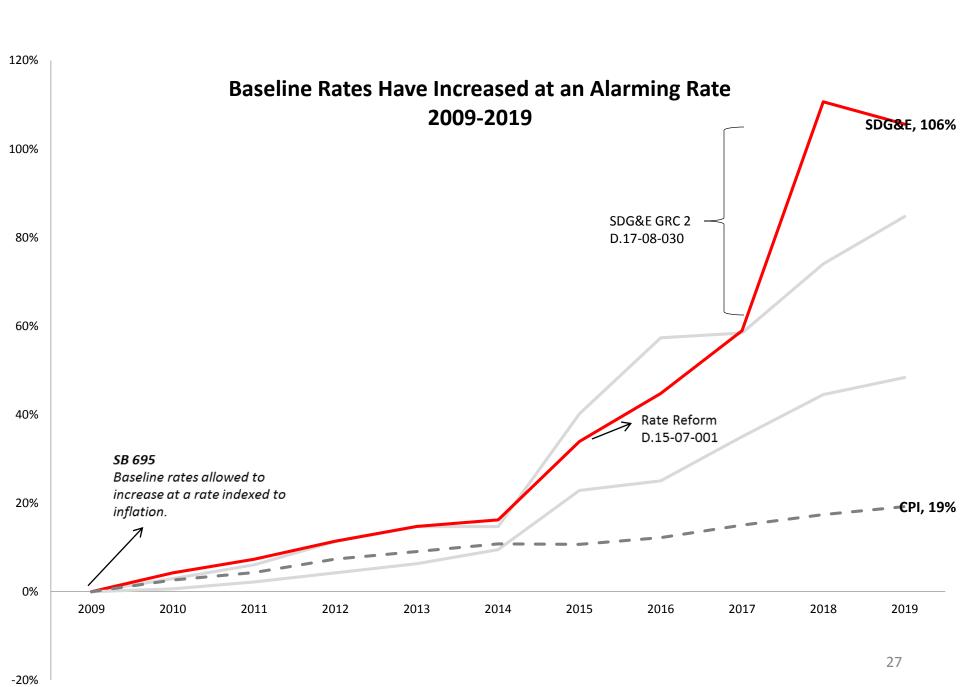
Effects on Baseline Rates are Substantial

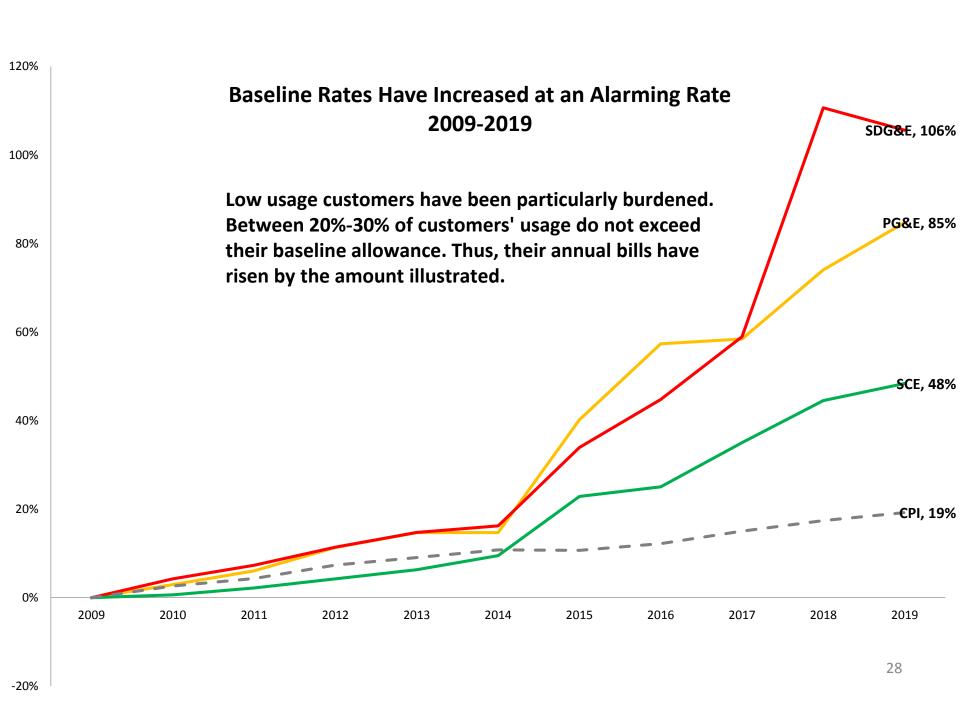
- The baseline allowance is intended "to supply a significant portion of the reasonable energy needs of the average residential customer." (PU Code §739.2b)
- This quantity is billed at the lowest rate and is intended to ensure affordability for essential usage.
- Baseline rates have increased at a pace far beyond inflation. The effects of revenue increase and falling sales are multiplied on baseline rates after enactment of residential rate reform. About a quarter to a third residential customers never exceed their baseline usage.













Recap: Seemingly minor revenue increases can amount to large rate increases to some customers.

Revenue Impact on Rates (2009-2019)

	Revenue % Change	System Average Rate % Change	Residential Rate % Change	Baseline Residential Rate % Change
SCE	3.2%	12%	18%	48%
PG&E	4.1%	37%	31%	85%
SDG&E	29.4%	45%	51%	106%



Forecasting Across Proceedings

- The Commission needs better tools to identify the trade-offs involved in approving new IOU spending across various proceedings.
- How does each application/request affect:
 - Total Revenue Requirement
 - Average rates:
 - system average rate
 - residential average rate
 - Average customer bill:
 - by customer class, climate zone, CARE/non-CARE, and at residential baseline usage level





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Data Needs

Filing Date	1/1/2019	Filing Year	2019										
				Annual Revenue Requirements (End of Year)									
	Revenue Requirement (Benchmark 1/1/2019)	\$\$\$		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<u>Status</u>	Proceeding s	Filing	Recovery Mechanism (e.g. Distribution, Generation, PPP)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2027
Pending	1	GRC, Application, Advice Letter, etc.											
	2												
	Total Pending												
	1												
Approved	2												
Approved	Total Approved												
	1												
Planned	2												
	Total Planned												
	Grand Total					_	_		_	-	_	_	



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Data Needs

		Rate Impacts in ¢/kWh								
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9
		2018	2019	2020	2021	2022	2023	2024	2025	2026
Residential										
Average Rate										
	Benchmark									
	Cost Causing Request									
	Application/Filing A									
	Application/Filing B									
	Total Cumulative Impact of all proceedings									
System Average										
Rate										
	Application/Filing A									
	Application/Filing B									
	Total Cumulative Impact of all proceedings									